COVID-19 Case Management Webinar Series: Home/Community Care Management of Patients with Non-Severe COVID-19, WHO, Geneva, 04 August 2021

SONJO: Community Isolation Shelter for COVID-19 Patients

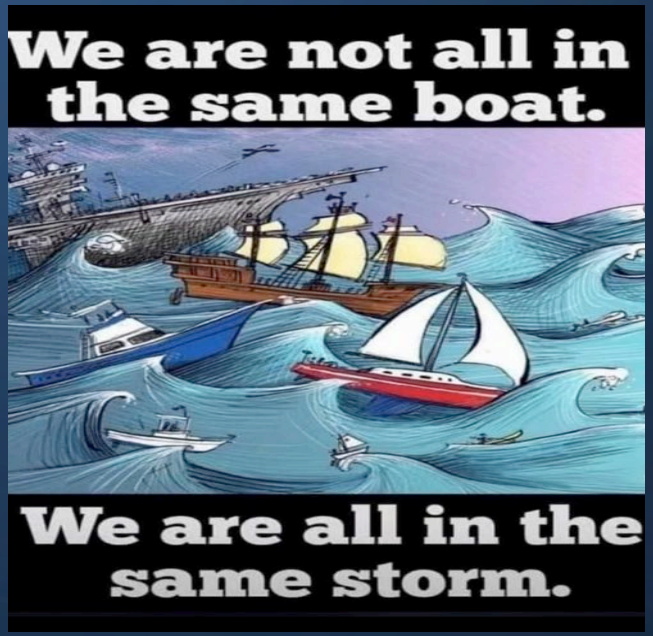
Rimawan Pradiptyo, PhD
Head, Department of Economics,
Faculty of Economics and Business, Universitas Gadjah Mada
and Initiator of SONJO

COVID-19: Is It a Disaster or a War?

- COVID-19 is a common enemy (non rival & non excludable)
- No one knows when the pandemic will last (as if playing an infinitely repeated game)
- The sustainability of the movement is paramount.
- The dominant strategies are:

1. Expect the unexpected: in term of the impact of the pandemic;
2. Thinking Innovatively: in term of the alternative solutions.
3. Resource mobilization to tackle the COVID-19 and its impacts in our region/ neighborhood

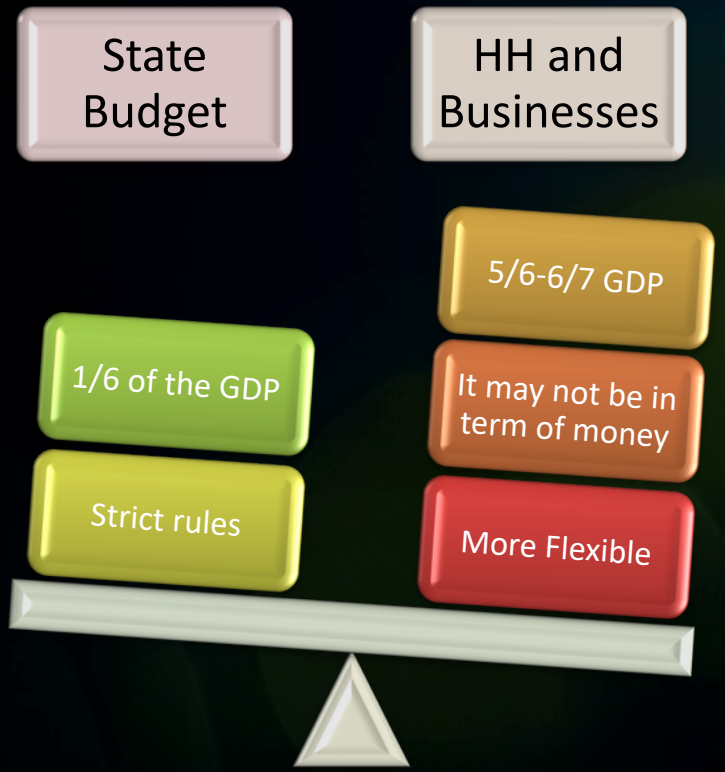
We are not in the sea & we are linked by internet



The poster which was so popular in Indonesia in March 2020

The way of thinking in SONJO since 24 March 2020

How to Mobilize Resources?



- During war/ pandemic/ economic crisis, logistic (resource) is a paramount
- Where are the resources? The state budget of Indonesia is only 1/6 of the GDP and 5/6 of the GDP are own by the households and businesses.
- The SMEs contribute to 50% of the economy.
- *Sambatan* is a traditional form of communal work in Jawa, which transforms time and abandon labor to compensate the lack of capital.
- SONJO (*Sambatan Jogja*) uses a similar approach with using WAGs.

SONJO (Sambatan Jogja)

- SONJO is a humanitarian movement to minimize the impact of Covid-19 in the province of Yogyakarta. The SONJO was formed on 24 March 2020.
- We use WhatsApps Group (WAG) to coordinate and to conduct communal works in the areas of health, economy and education.
- A study shows, on average, individuals in Indonesia spent 3,5 hours/day to access social media in various forms.
- Cultural consideration is heavily used in the programs of the SONJO.

sonjo
Sambatan Jogja
#OraAnaSingKeri

The Focus of the SONJO:

Vulnerable people and people at risk owing to the pandemic Covid-19

The Values of the SONJO:

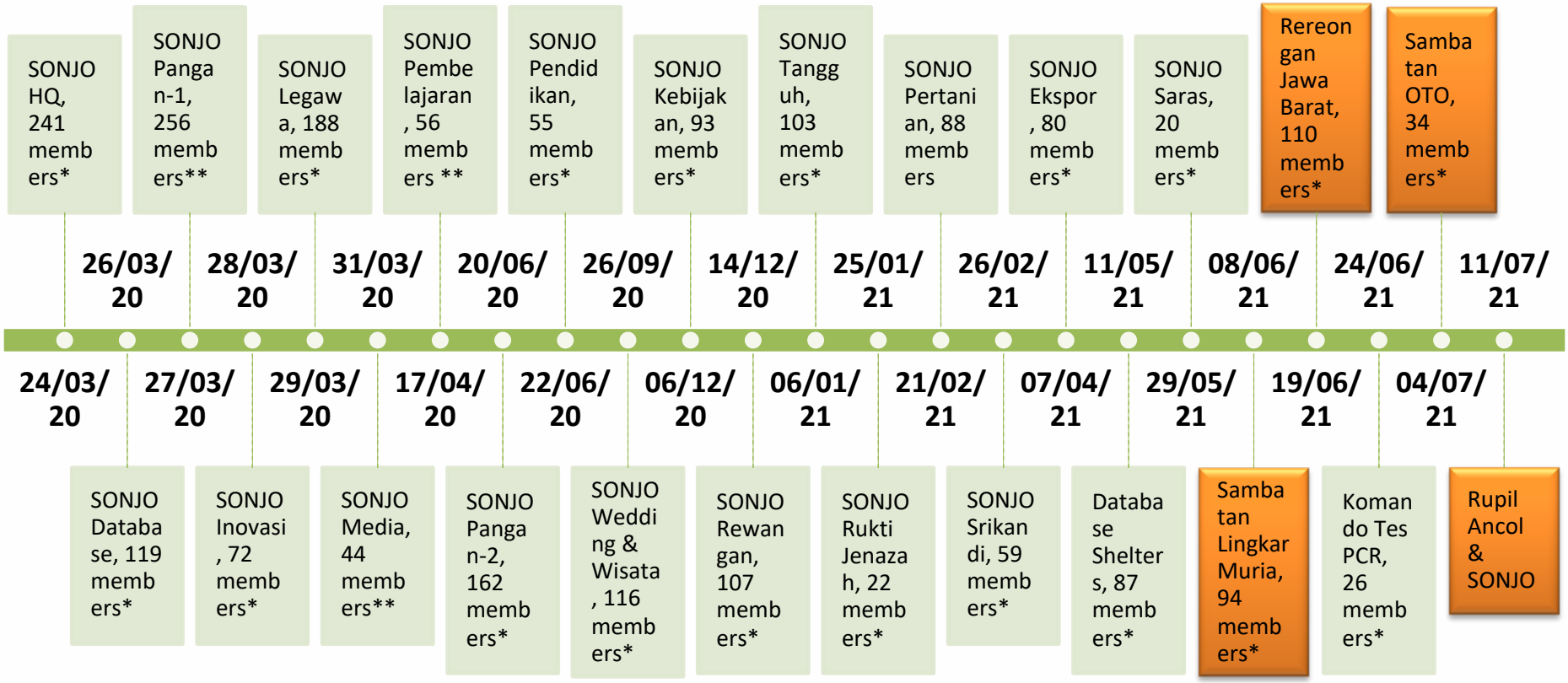
Integrity, Transparency, Empathy, and Sinergy

Hastag:

- **#OraAnaSingKeri (#NoOneLeftInDespair)**

Website: Sonjo.id/

The Development of 24 WAGs of the SONJO



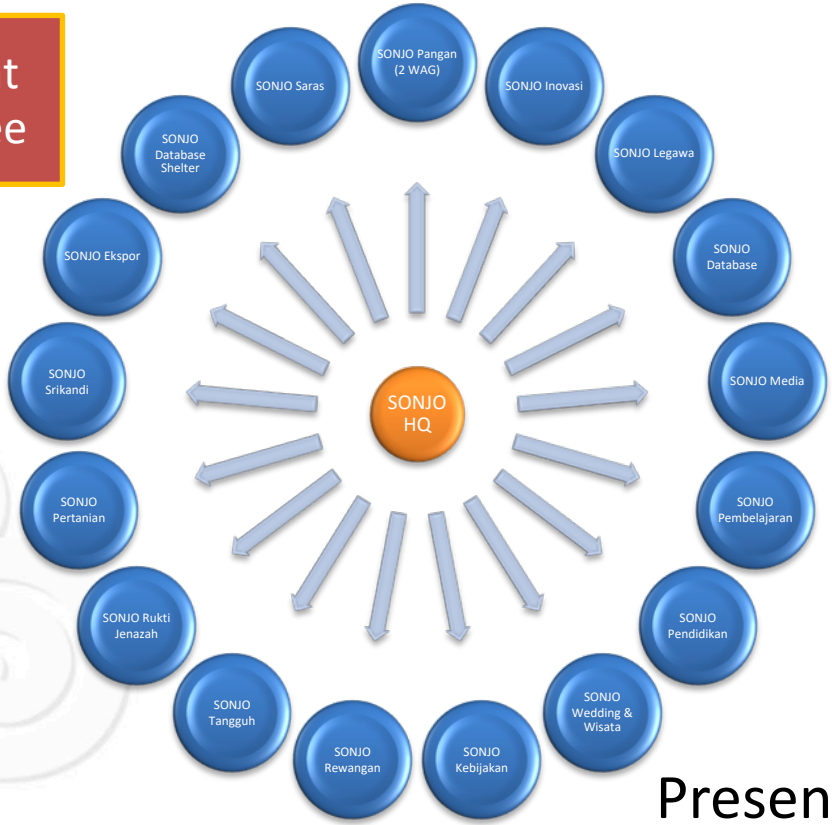
*) technical WAG; **) supporting WAG

The Development of SONJO

Compliant Committee

SONJO

24 March 2020



Present Day

- Website
- Database
- Apps
- Social Media

No Funding Required

- SONJO is not a charity
  - SONJO is not depended on funding from other institutions, including the government.
- SONJO is a movement (self-help group)
  - Sharing burden, sharing responsibility
  - Focus on improving resiliency of society
  - No funding is required, and each member contributes according to their skills/expertise
  - SONJO creates public goods aims to reduce transaction costs of people during the COVID-19 pandemic.

Reducing Transaction Costs by Creating Public Goods

Source: celebrity.okezone.com

Source: pngegg.com

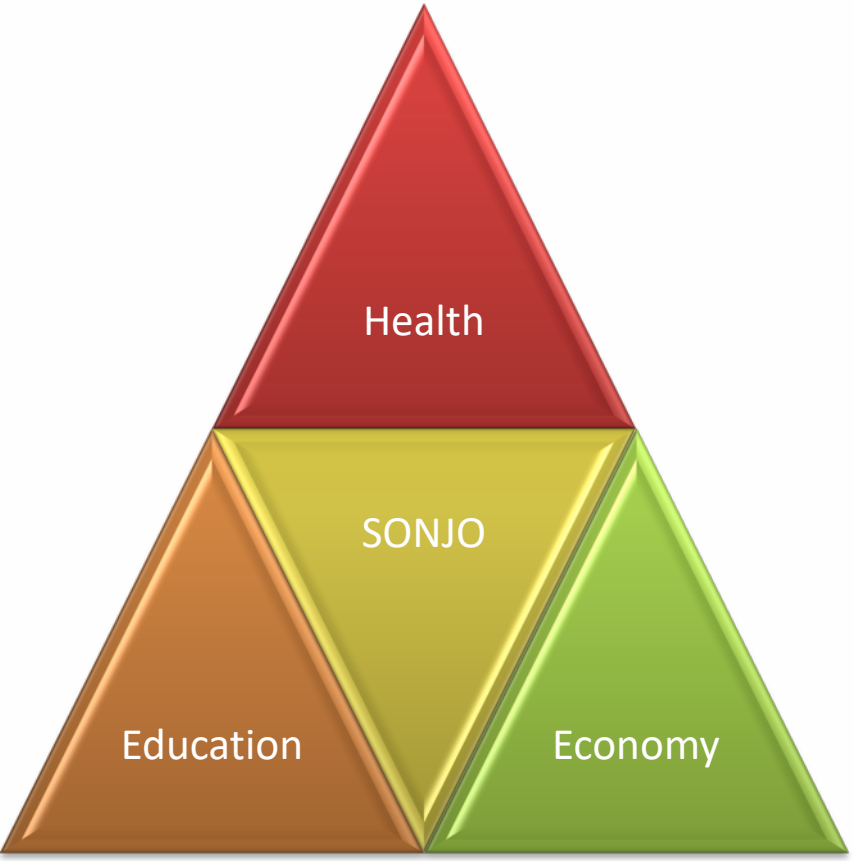
Health

Economy

Education

Public Goods

Coverage of the SONJO



SONJO *Kebijakan* (Policy)

- Propose policies in relation to COVID-19 to the government (Regency, Province, Central Government)

SONJO *Angkringan* (webinar)

- Weekly webinar. Topic: problems related to COVID-19 faced by the members. Up to episode #57

SONJO *Migunani* (transfer of skills)

- Sharing skills and experience among members of the SONJO. Up to episode #9

SONJO Solidarity Journey

- Webinars, sharing experience of developing social capital (SONJO) to international audiences. Up to episode #2.

Programs in Economy

#1. Database Sonjo Pangan (Database of grocery stores, traditional markets and restaurants)

#2. SONJO *Ngabuburit (promoting culinary products during the holly mount of Ramadan)*

#3. Etalase Pasar SONJO (EPS) (a show room app for SMEs)

#4. SONJO HampersFest (promoting parcel for special occasion)

#5. SONJO Jagong (promoting health protocol for weddings and events)

#6. SONJO Ekspor (Promoting SMEs to export their products)

#7. SONJO PasarDesa (supporting logistic to patients in shelters using local market place)

Programs in Health

#1. SONJO Poster

(online dissemination of Covid-19)

#2. *SONJO Husada*

(supporting hospital and health center with PPE, hand sanitizer, etc)

#3. SONJO *Inovasi*

(Supporting innovators to discover new equipment for Covid-19)

#4. SoHibKoe (SONJO Husada Konvalesen) Registering volunteers for plasma donors

#5. SONJO Database Rewangan

(Referral system for Covid-19 patients across hospitals)

#6. SONJO Husada Tangguh

(collaborative fund raising to support shelters & teams of volunteers)

#7. Database Shelter

(Developing database for monitoring of shelters)

#8. Database of Patients in Shelter (SISTERKU)

#9. SONJO Saras (volunteers to supervise shelters)

#10. LiveDokter (Teleconsultation)

#11. SONJO *Uwuh* (a pilot project of medical waste management for shelters)

#12. SONJO Rukti Jenazah

(Infectious Dead Body Handling for COVID-19 funeral)

SONJO *Rewangan* (Patients Referral System Among Hospitals)

The WAG was proposed by health workers in SONJO on 13-Dec-20

- Local elections
- Long holidays
- Dec 20 – Feb 21

Surge of Patients

Problems with the Referral System

- Specific referral
- The system built pre pandemic

- Alternative referral system
- Double auction approach
- WAG and Excel

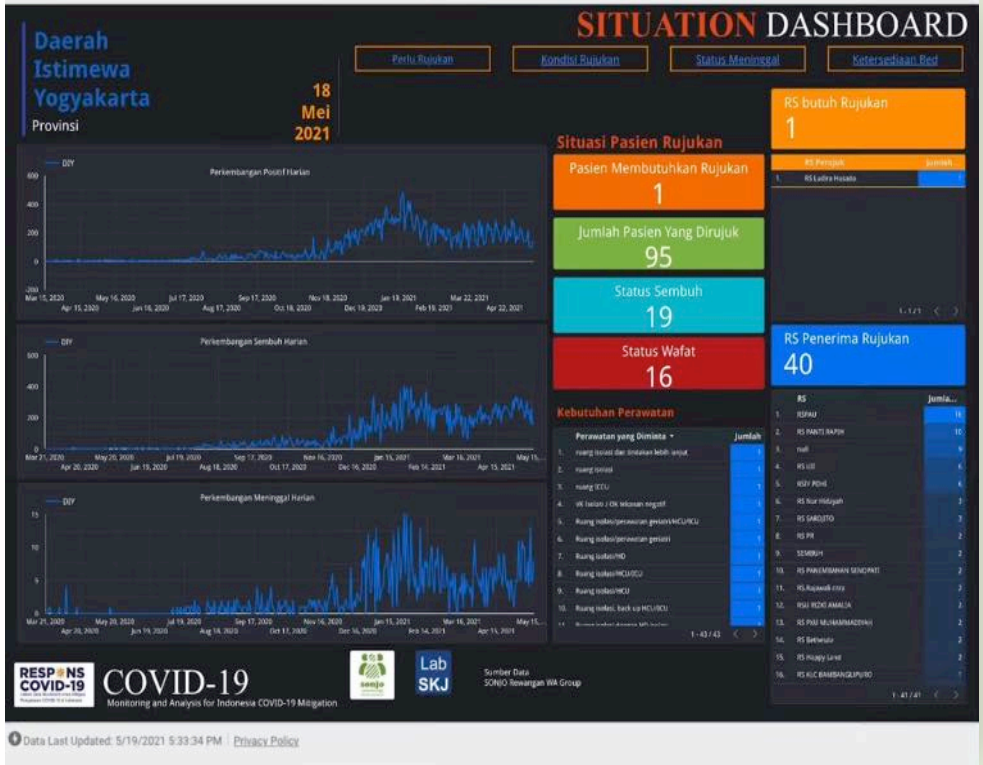
SONJO Rewangan

The program/WAG has been operating since 14-Dec-20

During the peak of the surge patients, Dec 2020, the waiting list for the referral reached 26 patients!!

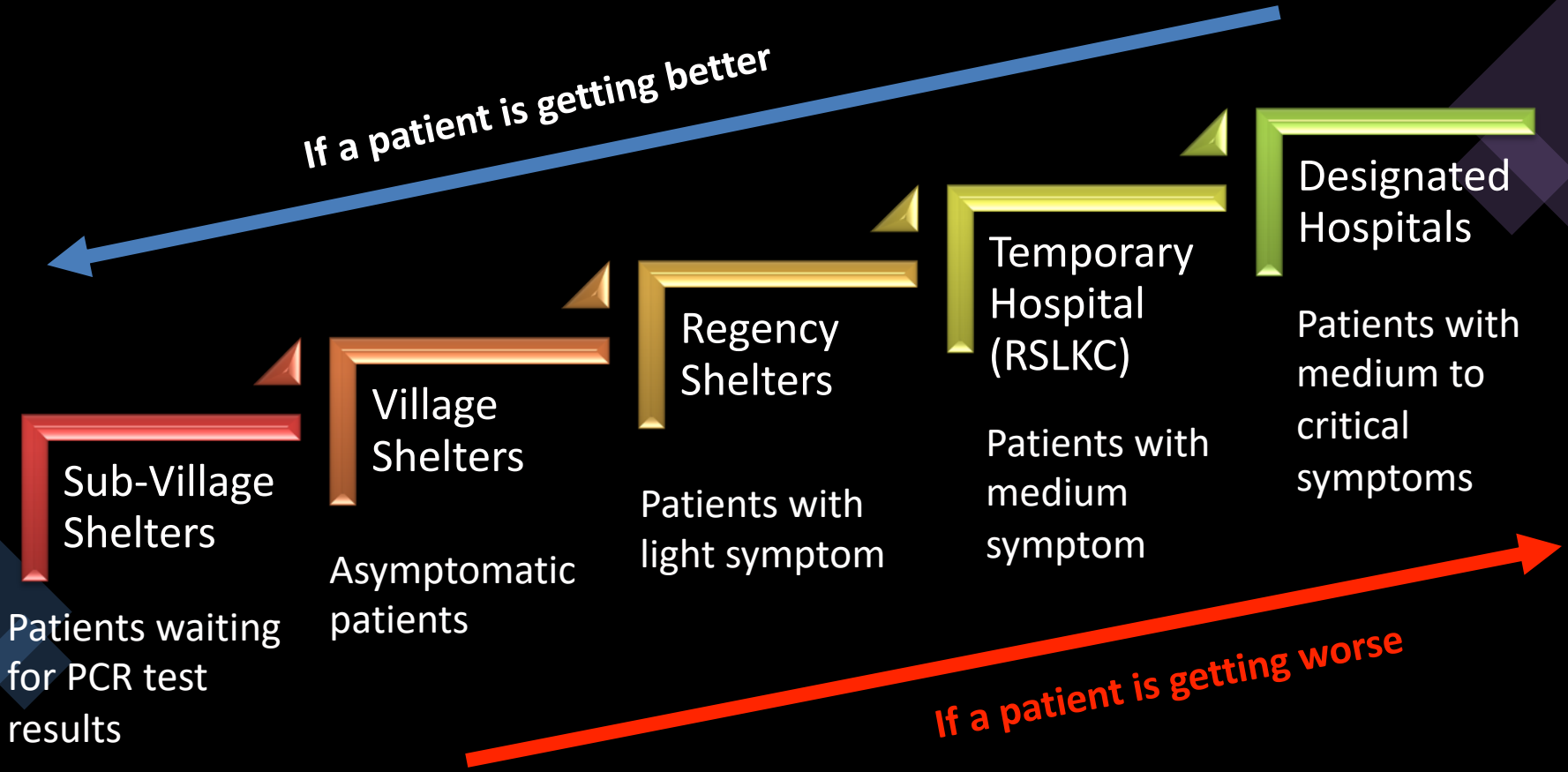
Emergency Rooms in some hospitals were closed temporarily due to the surge of patients

It drove a triple helix cooperation in the development of the resilient shelter (*shelter tangguh*) at regency level: ex Padmasuri Hospital (capacity 60 beds) in January 2021.

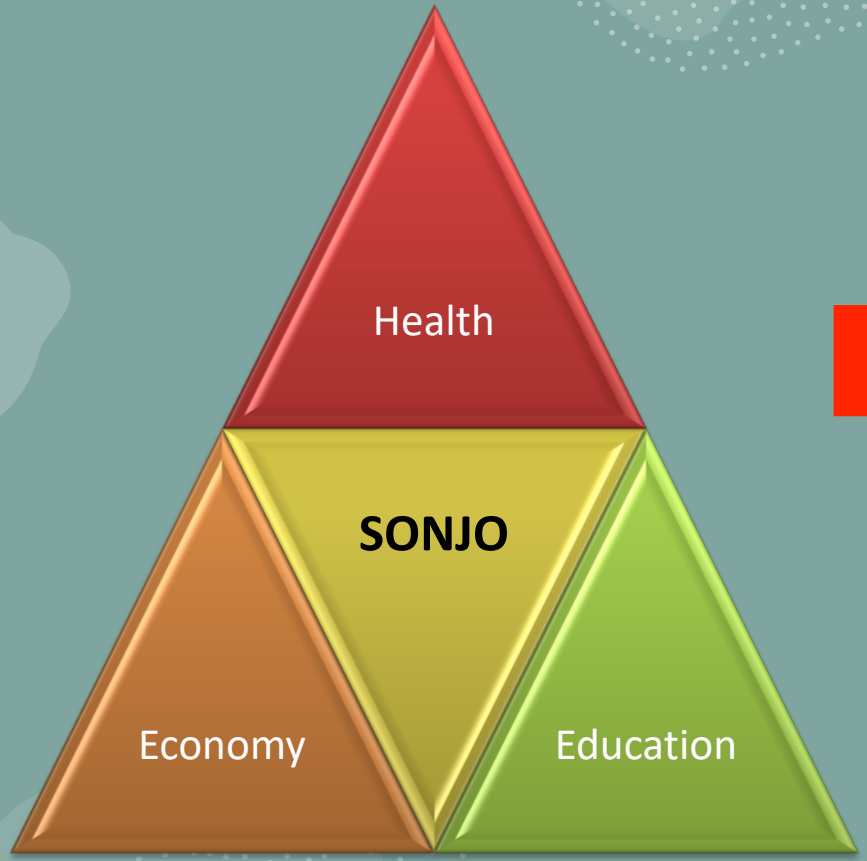


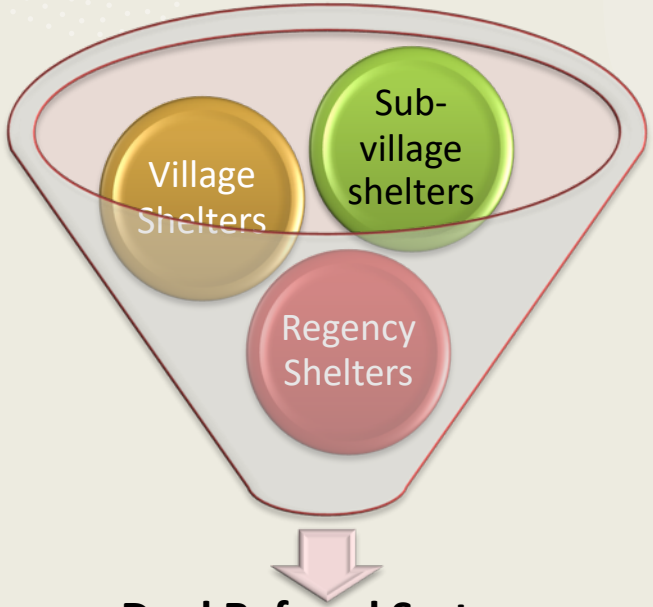
Source: https://datastudio.google.com/s/jDFjhrJ-mHA

Health Office of Bantul's Multilevel Shelters & Dual Referral System



Collaboration between SONJO & Bantul Health Office





Dual Referral System

(Health Office of Bantul)

Technical Assistant: How to Develop Shelter

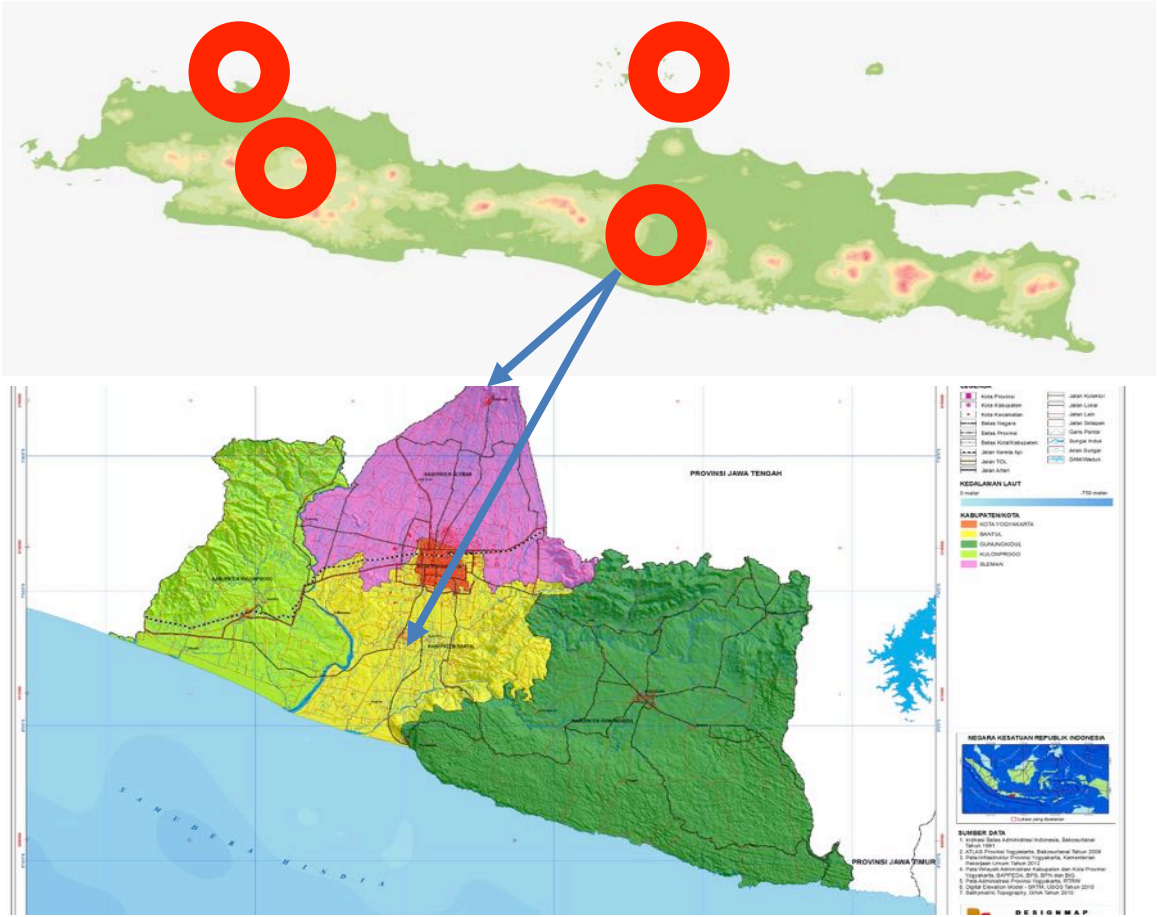
- Technical Assistant #8 had been conducted by:
  - dr. Tarsisius Glory (Bantul Health Office)
  - dr. Sri Aminah (Yogyakarta Regional Hospital)
- Coverage Areas/Corporations
  - Kudus, Pati, Demak, Jepara
    - WAG Sambatan Lingkar Muria (SaLiRa)
  - Bandung Barat, Bandung, Karawang
    - WAG Rereongan Jawa Barat
  - PT. OTO, PT. IFG
    - WAG Sambatan OTO
  - PT Pembangunan Ancol
    - WAG Rupil Ancol & SONJO
  - Bangkalan, Sumenep (Madura Island)
- Materials: https://sonjo.id/en/sonjo-migunani-en/the-extensification-of-shelter-construction-to-support-hospitals/

Type of Shelters

- The original version of the shelters in Bantul are: regency, village and sub-village shelters.
- The pesantren (Islamic boarding school) shelters have been developed in Sleman (Yogyakarta) and Kudus (Central Java)
- The university shelters have been developed in Sleman (Yogyakarta), Kudus (Central Java) and Bandung (West Java)
- The corporation shelters have been developed in Bogor (West Java) and Jakarta.

Mainstreaming of the Shelters through Join WAGs

- Attempts have been made to mainstream shelters outside Yogyakarta by developing join WAGs.
- The members of the WAGs are volunteers of SONJO and volunteers from other regions. (Central Java, West Java and Jakarta)
- The existence of the join WAGs enable us to transfer of knowledge and experience of developing shelters.



Join WAGs Aim to Develop Shelters

- There are variations in the development of shelters in other areas. Local conditions and also culture is heavily considered.
- WAG Sambatan Lingkar Muria (4 regencies): 22 shelters
  - MCCC – NU Peduli – SONJO – Local Society
- WAG Rereongan West Java (province): 3 shelters
  - MCCC – NU Peduli – SONJO – CISDI – PUSPA- Local Society
- WAG Sambatan OTO (1 shelter)
  - OTO Ltd & SONJO
- WAG Rupil Ancol & SONJO (1 shelter)
  - Pembangunan Ancol Ltd & SONJO

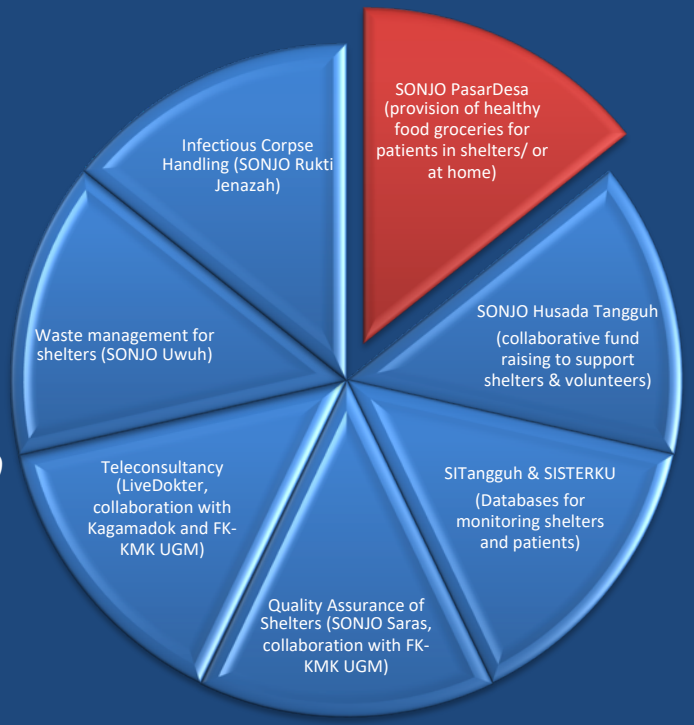
The Triage System & 3T

Triage	Asymptomatic or Mild Symptom	Medium to Critical Symptom
Public Health Center Hospital	Shelters If a patient is worser, he/she is referred to hospital	Hospital If a patient is better, he/she is referred to shelters.

The system puts public health center (Puskesmas) as an important role in the triage system.
The shelters play an important role on trace, test and treatment (isolate).

Supporting Programs of Shelters

- Logistic for patients (*SONJO PasarDesa*)
- Logistic for shelters and volunteers (*SONJO Husada Tangguh*)
- Database monitoring of shelters and patients (*SITangguh & SISTERKU*)
- Quality assurance of the shelters (*SONJO Saras*, in collaboration with FK-KMK, UGM)
- Teleconsultancy (LiveDokter, in collaboration with Kagamadok & FK-KMK, UGM)
- Waste management for shelters (pilot project) (*SONJO Uwuh*)
- Infectious Corpse Handling (*SONJO Rukti Jenazah*): https://sonjo.id/en/sonjo-migunani-en/sonjo-migunani-6-infectious-covid-19-corpse-handling-by-community/



Complexities

- The system tends to be suboptimum if the shelters do not link with a hospital
- Public health center plays a crucial role in disaster pre-hospital triage, however, the existence of the shelters depends on head of region (village/ regency)
- The bottom-up approach tend to be pursued by *pesantren*, university, and corporation
- People in the neighborhood may refuse the shelter, but this may be solved by pro-active local government.

Matur Sembah Nuwun

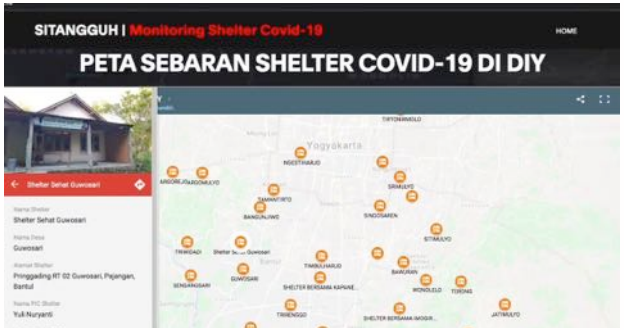
Rimawan Pradiptyo

Mengakar Kuat
Menjulang Tinggi

Appendix: Supporting Programs

SITangguh: Database of Shelters in Yogyakarta

- The WAG of Database Shelter was formed on 11 May 2021.
- We developed SITangguh (Information System of Shelter *Tangguh*)
- Aims: Developing database of shelters in the Province of Yogyakarta to mitigate the second wave of the Covid-19.
- Thus far 60 shelters are registered in Bantul and Sleman. Currently we support Sleman regency to develop more shelters to anticipate the 2nd wave surge of patients.
- The variation across regencies is due to the local government policies.



Source: shelter.gamabox.id

SISTERKU

- SISTERKU is an IT system of patients in shelters
- All patients in a shelter have to join a WAG
- They have to report their temperature and saturation of O_2 in regular basis using WAG.
- SONJO has developed SISTERKU to help the health office of Bantul in managing and monitoring patients across shelters
- This system has been extended to include teleconsultation. This program will be launched within a week.

SONJO Husada Tangguh

- The WAG *SONJO Tangguh* was formed on 6 Jan 2021
- Members: head of villages, CSOs, volunteers (MCCC, etc), health experts, PPE producers, politicians, bureaucrats, etc.
- Aims: promoting collaboration across stakeholders to support shelters
- It has a program of identifying demand and supply of provisions for the shelters
- Collaborative fund raising has been done by several CSOs in the WAG.
- The donation has been used to support:
  - Shelters in Bantul, Sleman and Kudus
  - Teams of volunteers in Bantul, Sleman, Kulon Progo, Gunung Kidul and Yogyakarta City
  - Hospitals in Bantul, Sleman, Kulon Progo
  - Hundreds of isolation patients in *pesantren* in Bantul and Sleman, and self isolation patients in Yogyakarta City.

SONJO Saras

- The program provides technical assistant to village, sub-village and also *pesantren* (Islamic boarding school) to develop, and to ensure the quality of the shelters.
- Students and lecturers from the Faculty of Medicine, the Faculty of Pharmacy of several universities joint this program.
- Dr. Sri Aminah and her team wrote guide books on how to develop both village and pesantren shelters. The guide books are available for free in SONJO.id.

LiveDokter (Online Consultation)

- This teleconsultation and telemedicine programs are the collaboration of Kagamadok - FK-KMK UGM and SONJO
- The program has attracted about 200 volunteer medical doctor (some of them are quite senior)
- The coverage of the program: to all people in Indonesia
- SISTERKU (apps for monitoring patients) has been developed by Faculty of Science of UGM team.
- The first 24 hours, the program has attracted more than 250 inquiries.

SONJO Rukti Jenazah

- If a COVID-19 patient passed away at home, the community has to handle the infectious corpse
- Handling infectious COVID-19 corpses should be conducted correctly to avoid further spread of the COVID-19
- At the same time, this should also conform with guidance of the religions on handling the corpses.
- This program provides guidance on how to handle infectious COVID-19 corpses from the perspective of Islam and Christianity. The guidance may be downloaded for free at: https://sonjo.id/en/uncategorized-id/sonjo-migunani-6-infectious-covid-19-corpse-handling-by-community/

Pilot Project: *SONJO Uwuh*

- There is no intervention using needle in the shelters, however, the shelters produced substantial medical waste (masks, PPEs, etc.).
- The project is a collaborative work between SONJO and Panggungharjo village, which has an incinerator.
- The projects covers 80 *dasawisma* (ten households in each *dasawisma*) in Panggungharjo village. Extension will be conducted to cover additional 10 shelters of the neighboring villages.
- The pilot project is for three month commencing April 2021.

SONJO-PasarDesa

- There is a budgetary constraint for the operational costs of the shelters.
- A pilot project was conducted in Bantul, Sleman and Kudus (each of which 200 packages)
- Currently the program has been designated to pesantren and self-isolation with low income HH.
- Each patient of the shelter receive food voucher worth USD 12.5 (Rp180.000) for 10 days, and the healthy groceries are provided by pasardesa.id.
- The program links among shops, farmers, traders, and delivery courier to patients in the shelters or in their home.

SONJO Tetuko (Mass Vaccination)

- This is a join project among regency health office – PKK (women association) – SONJO
- It was formed prior to the Emergency PPKM
- The program will be held after the Emergency PPKM.